

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference HU/1 - 23040	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2005/051325	International filing date (day/month/year) 23/03/2005	(Earliest) Priority Date (day/month/year) 02/04/2004
Applicant CIBA SPECIALTY CHEMICALS HOLDING INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 7 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).

3. ☒ Unity of invention is lacking (see Box III).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

USE OF BENZOPHENONE UV FILTERS FOR PREVENTING TANNING

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

BEST AVAILABLE COPY

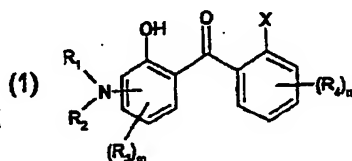
INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2005/051325

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The invention describes the use of organic UV filters of formula



wherein

- R₁ and R₂, independently from each other are hydrogen, C₁-C₂₀alkyl, C₂-C₁₀alkenyl, C₃-C₁₀cycloalkyl, C₃-C₁₀cycloalkenyl, or R₁ and R₂ together with the nitrogen atom to which they are bonded can form a 5- or 6-membered ring;
- R₃ and R₄, independently from each other are C₁-C₂₀alkyl, C₂-C₁₀alkenyl, C₃-C₁₀cycloalkyl, C₃-C₁₀cycloalkenyl, C₁-C₁₂alkoxy, C₁-C₂₀alkoxycarbonyl, C₁-C₁₂alkylamino, C₁-C₁₂dialkylamino, aryl, heteroaryl, optionally substituted, substituents which confer solubility in water, chosen from the group consisting of a nitrile group, carboxylate, sulfonate or ammonium radicals;
- X is hydrogen, COOR₅, CONR₆R₇;
- R₅, R₆ and R₇, independently from each other are hydrogen, C₁-C₂₀alkyl, C₂-C₁₀alkenyl, C₃-C₁₀cycloalkyl, C₃-C₁₀cycloalkenyl, (Y-O)_o-Z-aryl;
- Y is -(CH₂)₂-, -(CH₂)₃-, -(CH₂)₄-, -CH(CH₃)-CH₂-;
- Z is -CH₂-CH₃, -CH₂-CH₂-CH₃, -CH₂-CH₂-CH₂-CH₃, -CH(CH₃)-CH₃;
- m is from 0 to 3;
- n is from 0 to 4;
- o is from 1 to 20;

for preventing tanning human skin, and their use in cosmetic and pharmaceutical formulations, as anti-wrinkling agents, skin-firming agents and as anti-skinlifting agents.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/051325

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K7/42

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 409 995 B1 (BACH THORSTEN ET AL) 25 June 2002 (2002-06-25) column 2, line 17 - line 59 column 12, line 35 - column 13, line 11 column 13, line 55 - column 14, line 54 table 2 ----- -/--	1-9

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

20 September 2005

Date of mailing of the international search report

17. 10. 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Donovan-Beermann, T

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/051325

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	THE SCIENTIFIC COMMITTEE ON COSMETIC PRODUCTS AND NON-FOOD PRODUCTS INTENDED FOR CONSUMERS: "Opinion concerning Benzoic Acid, 2-'4-(DIETHYLAMINO)-2-HYDROXYBENZOYL!-, HEXYLESTER" INTERNET ARTICLE, 'Online! October 2003 (2003-10), XP002294981 Retrieved from the Internet: URL: http://europa.eu.int/comm/health/ph_risk/committees/sccp/documents/out241_en.pdf > 'retrieved on 2004-09-06! page 3 - page 4 -----	1-8
X	EP 1 317 920 A (OREAL) 11 June 2003 (2003-06-11) page 2, line 7 - line 9 page 3, line 4 - line 35 page 5, line 53 - line 54 page 6, line 56 - page 9, line 55; claims; examples -----	1-8
X	EP 1 317 918 A (OREAL) 11 June 2003 (2003-06-11) page 2, line 1 - line 13 page 3, line 53 - page 21, line 53 page 24, line 36 - line 37; claims; examples -----	1-8

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2005/051325

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-12

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-12

The use of (a) UV filters selected from the compounds of formula (1) as organic UV filters for preventing tanning human skin.

2. claim: 13

Use of a cosmetic or pharmaceutical composition comprising at least component (a) as anti-wrinkling agent.

3. claim: 14

Use of a cosmetic or pharmaceutical composition comprising at least component (a) as skin firming agent.

4. claim: 15

Use of a cosmetic or pharmaceutical composition comprising at least component (a) as anti-skinlifting agent.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/051325

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6409995	B1	25-06-2002	AT 275929 T	15-10-2004
			AU 773111 B2	20-05-2004
			AU 2886900 A	26-10-2000
			CN 1273088 A	15-11-2000
			CN 1554325 A	15-12-2004
			DE 19917906 A1	26-10-2000
			EP 1046391 A2	25-10-2000
			ES 2228322 T3	16-04-2005
			JP 2000319628 A	21-11-2000
			PT 1046391 T	31-01-2005
<hr/>				
EP 1317920	A	11-06-2003	BR 0205469 A	27-07-2004
			CA 2412123 A1	07-06-2003
			CN 1425367 A	25-06-2003
			FR 2833166 A1	13-06-2003
			JP 2003171252 A	17-06-2003
			US 2003129152 A1	10-07-2003
<hr/>				
EP 1317918	A	11-06-2003	BR 0205462 A	27-07-2004
			CA 2412807 A1	07-06-2003
			CN 1425368 A	25-06-2003
			FR 2833164 A1	13-06-2003
			JP 2003192557 A	09-07-2003
			US 2003152532 A1	14-08-2003
<hr/>				